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MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.
HELENA, MONTANA

Vol. XVIII, No. 8 August, 1970

Production of crude oil and condensate from the oil and gas areas of Montana for the month of August, 1970, averaged 101,018 barrels daily, a decrease of 680 barrels from the average July, 1970 production of 101,698.

The nine refineries in the state processed 129,044 barrels of crude oil daily for the month of August, 1970, an increase of 2,887 barrels from the 126,157 barrels processed daily during the month of July, 1970.

During August 44 wells were completed, 6 oil, 2 gas and 36 dry holes.

During August the commission issued 27 permits to drill new wells, a decrease of 38 from the 65 permits issued during July.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF AUGUST, 1970

IN STORAGE AUGUST 1st	
By Producers	347,605
By Transporters	1,514,527
By Refiners	1,024,001
TOTAL STORAGE	2,886,133
Produced in Montana During Month	3,131,565
Imported During Month	3,298,180
TOTALS	9,315,878
DISPOSITION:	
Refined in Montana	4,000,355
Exported	2,952,449
Used for Fuel or Lost	9,750
TOTAL	6,962,554
IN STORAGE AUGUST 31st	
By Producers	342,658
By Transporters	1,227,214
By Refiners	783,452
TOTAL STORAGE	2,353,324

NATURAL GAS WITHDRAWALS IN MONTANA

Month of August, 1970

Field	M. Cu. Ft.
Bell Creek	540,228
Big Coulee	26,209
Blackjack	71,526
Bowdoin	50,596
Bowes	33,334
Cabin Creek	102,102
Cedar Creek	69,692
Cut Bank (Including Reagan)	382,313
Devon	0
Dry Creek	32,440
Elk Basin	108,447
Flat Coulee	1,309
Gold Butte	2,542
Grandview	12,228
Hardin	3,282
Keith Block	52,406
Kevin Sunburst	23,659
Lake Basin	44,619
Middle Butte	2,403
Mt. Lilly	0
Pine	58,406
Plevna	6,159
Squaw Coulee	62,025
Tiger Ridge	27,922
Utopia	42,150
Whitlash	95,483
Miscellaneous	328,875
TOTAL	2,180,355

Total withdrawals for August 1969 were 2,511,507.

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PRODUCERS REPORT— MONTH OF AUGUST, 1970

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
3	Ash Creek	3	529	1,899	----------	2,283	----------	145
1	Bainville	1	2,738	5,987	----------	5,593	----------	3,132
..	Bannatyne	----------	573	----------	----------	----------	----------	573
..	Bascom	----------	165	----------	----------	----------	----------	165
5	Bear's Den	6	1,828	1,147	203	1,025	----------	1,747
62	Bell Creek	367	44,723	578,405	576,185	----------	1,781	45,162
..	Benrud	----------	401	----------	----------	----------	281	120
2	Benrud East	2	1,950	13,681	14,185	----------	----------	1,446
1	Benrud Northeast	1	891	2,821	3,232	----------	----------	480
1	Berthelote	1	353	----------	72	----------	----------	281
5	Big Wall	12	2,639	10,906	11,883	----------	----------	1,662
5	Blackfoot	6	1,337	2,203	2,269	----------	----------	1,271
4	Border	4	511	983	----------	1,028	----------	466
1	Bowes	55	2,352	12,663	10,453	----------	----------	4,562
1	Bradley	1	381	632	812	----------	----------	201
..	Brady	----------	296	----------	----------	----------	----------	296
4	Brorson-Madison	4	1,161	5,501	----------	4,913	----------	1,749
6	Brorson Red River	6	4,431	21,062	----------	20,225	1,295	3,973
3	Brorson-Red River South	3	2,318	9,918	----------	9,741	280	2,215
5	Brush Lake	5	604	27,790	27,432	----------	----------	962
2	Cabin Creek	97	----------	311,397	311,397	----------	----------	----------
12	Cat Creek	60	2,503	14,467	10,979	2,479	----------	3,512
1	Clark's Fork	1	17	123	----------	----------	----------	140
1	Clark's Fork South	1	----------	536	----------	----------	----------	536
2	Conrad South	2	662	1,222	1,222	----------	489	173
1	Cow Creek	1	218	333	----------	504	----------	47
1	Culbertson	1	652	3,209	----------	3,445	----------	416
2	Cupton	2	1,393	2,612	----------	1,719	----------	2,286
123	Cut Bank	879	61,476	456,272	461,406	----------	1,748	54,594
..	Dean Dome	----------	65	----------	----------	----------	----------	65
2	Deer Creek	2	1,446	1,990	2,690	----------	----------	746
1	Delphia	1	614	304	----------	603	----------	315
..	Devil's Basin	----------	671	----------	----------	----------	----------	671
3	Dwyer	14	5,435	21,800	22,388	----------	----------	4,847
4	Elk Basin	57	1,276	175,407	175,106	----------	----------	1,577
5	Elk Basin Northwest	13	9,157	10,938	11,158	----------	----------	8,937
5	Fairview	11	8,786	52,793	53,144	----------	----------	8,435
2	Fertile Prairie	2	567	1,430	----------	1,500	----------	497
9	Flat Coulee	27	5,202	9,811	9,995	----------	----------	5,018
43	Flat Lake	64	6,652	71,899	72,389	----------	----------	6,162
4	Flat Lake South	4	1,012	5,989	6,088	----------	----------	913
1	Frannie	1	----------	620	620	----------	----------	----------
15	Fred & George Creek	40	1,802	39,510	39,698	----------	----------	1,614
..	Gage	----------	129	----------	----------	----------	----------	129
2	Gas City	2	7,646	24,038	19,425	4,794	----------	7,465
2	Girard	2	1,371	6,629	----------	7,032	30	938
11	Glendive	15	2,924	29,372	25,807	4,011	----------	2,478
28	Goose Lake	34	6,104	44,385	44,175	----------	----------	6,314
9	Graben Coulee	19	4,433	4,478	2,129	2,276	----------	4,506
..	Gypsy Basin	----------	749	----------	----------	----------	----------	749
..	Hardscrabble Creek	----------	58	----------	----------	----------	----------	58
2	Hay Creek	2	509	16,562	16,621	----------	----------	450
7	Hiawatha	7	4,274	10,588	10,340	----------	----------	4,522
1	Hibbard	1	649	265	----------	414	----------	500
1	Injun Creek	1	420	465	----------	411	----------	474
6	Ivanhoe	11	1,605	7,859	6,355	----------	62	3,047
7	Keg Coulee	17	3,497	10,615	9,445	----------	----------	4,667
2	Keg Coulee North	2	462	747	905	----------	----------	304
1	Kelley	5	617	4,396	4,007	----------	----------	1,006
77	Kevin Sunburst	357	10,472	28,945	27,576	2,199	32	9,610
8	Laird Creek	10	591	5,080	----------	5,178	8	485
2	Leary	2	824	1,159	----------	818	----------	1,165
1	Little Beaver	23	----------	28,981	28,981	----------	----------	----------
2	Little Beaver East*	13	1,500	15,903	15,155	----------	----------	2,248
2	Lodge Grass	2	772	1,780	----------	1,242	----------	1,310
3	Lookout Butte (Coral Creek)	33	1,097	87,782	88,083	----------	----------	796
..	Mackay Dome	----------	1,134	----------	----------	----------	----------	1,134
2	Mason Lake	2	579	1,212	1,324	----------	----------	467
3	Melstone	4	953	1,904	1,535	----------	----------	1,322
1	Mineral Bench	1	580	308	435	----------	----------	453
1	Miner's Coulee	1	107	490	----------	490	----------	107
10	Monarch	13	3,903	17,980	14,887	3,138	----------	3,858
4	Mosser	4	----------	602	602	----------	----------	----------
6	Outlook	9	6,732	16,763	17,467	----------	----------	6,028
1	Outlook South	1	1,057	1,706	1,608	----------	----------	1,155
2	Outlook West	2	1,308	3,133	3,426	----------	----------	1,015
1	Pennel-Lookout Butte	110	----------	133,809	133,809	----------	----------	----------
4	Pine	115	17,146	280,285	279,912	----------	----------	17,519
1	Pole Creek	1	178	225	----------	225	----------	178
61	Pondera	269	6,631	25,272	25,767	----------	----------	6,136
7	Poplar	67	7,914	57,481	55,684	----------	144	9,567
3	Poplar Northwest	3	1,451	1,173	1,235	----------	----------	1,389
1	Prairie Elk	1	1,668	----------	----------	----------	----------	1,668
5	Pritchard Creek	5	167	2,417	2,417	----------	----------	167
4	Ragged Point	12	8,265	7,566	13,636	----------	----------	2,195
2	Rattlesnake Coulee	2	528	613	387	----------	----------	754
2	Reagan	47	444	21,601	21,504	----------	----------	541
1	Red Creek	21	----------	18,534	18,534	----------	----------	----------
1	Red Fox	1	209	1,399	1,324	----------	----------	284
1	Redstone	1	400	3,599	3,631	----------	----------	368
1	Repeat	1	120	1,636	----------	1,616	----------	140
5	Reserve	5	----------	11,157	11,157	----------	----------	----------
1	Richey	1	770	686	1,078	----------	----------	378
1	Richey Southwest	6	694	2,523	----------	2,614	----------	603
..	Rough Creek	----------	266	----------	----------	----------	----------	266
1	Rush Mountain	1	547	3,255	3,098	----------	----------	704
5	Sand Creek	8	3,743	7,220	7,072	----------	----------	3,891
1	Shotgun Creek	1	150	566	----------	322	----------	394
1	Sidney	1	600	332	----------	332	----------	600
1	Snyder	4	620	891	----------	1,168	----------	343
6	Soap Creek	17	2,306	3,727	----------	3,632	----------	2,401
1	Spring Lake	2	1,985	2,916	----------	2,461	----------	2,440
1	Stensvad	10	2,519	24,461	24,634	----------	----------	2,346
12	Sumatra	81	12,923	53,623	50,801	----------	----------	15,745
5	Tule Creek	6	3,087	30,544	----------	31,126	----------	2,505
2	Tule Creek East	2	620	9,935	----------	9,535	----------	1,020
2	Tule Creek South	3	657	4,370	----------	4,343	----------	684
2	Vida	2	882	1,705	----------	1,744	----------	843
3	Volt	4	2,668	13,108	13,350	----------	----------	2,426
2	Weed Creek	3	422	3,596	3,642	----------	4	372
4	Weldon	8	822	27,759	27,155	----------	----------	1,426
1	West Butte	1	----------	2,769	----------	2,769	----------	----------
18	Whitlash	48	5,524	13,227	11,238	----------	278	7,235
1	Whitlash West	1	601	269	206	----------	----------	664
..	Wibeaux	----------	132	----------	----------	----------	----------	132
2	Wills Creek South	2	----------	3,609	3,609	----------	----------	----------
6	Wolf Springs	9	3,077	4,221	3,769	----------	----------	3,529
2	Woodrow	2	653	1,580	1,919	----------	----------	314
3	Wright Creek	5	2,594	2,602	3,063	----------	----------	2,133
1	Wildcat, Blaine Cty	1	590	203	----------	482	----------	311
..	Wildcat, Carbon Cty	----------	310	----------	----------	----------	----------	310
1	Wildcat, Daniels Cty	1	643	4,375	----------	4,541	----------	477
1	Wildcat, Fallon Cty	3	1,669	9,229	----------	9,690	----------	1,208
2	Wildcat, Glacier Cty	5	1,329	947	1,474	----------	----------	802
1	Wildcat, Liberty Cty	1	225	80	----------	----------	----------	305
3	Wildcat, Musselshell Cty	3	740	12,597	----------	12,075	----------	1,262
7	Wildcat, Richland Cty	7	1,273	57,764	----------	56,223	----------	2,814
1	Wildcat, Roosevelt Cty	1	----------	7,315	----------	7,315	----------	----------
1	Wildcat, Toole Cty	1	----------	407	----------	407	----------	----------
754	Total	3,264	347,605	3,131,565	2,890,399	239,681	6,432	342,658

Total Oil Produced & Shipped From Leases	Bbls. Produced	Daily Average	Bbls Shipped	Daily Average
Year, 1969	43,954,112	120,422	44,000,342	120,549
1st Quarter, 1970	9,744,920	108,306	9,724,779	108,062
2nd Quarter, 1970	9,446,320	103,806	9,422,315	103,542
July, 1970	3,152,633	101,698	3,176,552	102,469
August, 1970	3,131,565	101,018	3,130,080	100,970
September, 1970				

Oil In Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total oil In Storage‡
December, 1969	351,210	1,237,355	731,177	2,319,742
March, 1970	362,487	1,382,147	387,559	2,132,193
June, 1970	374,566	1,704,027	1,084,703	3,163,296
July, 1970	347,605	1,514,527	1,024,001	2,886,133
August, 1970	342,658	1,227,214	783,452	2,353,324

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT—MONTH OF AUGUST, 1970

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,283				2,283		
BAINVILLE—									
Rock Island Oil & Ref. Co.			5,593				5,593		
BEAR'S DEN—Truck			1,025				1,025		
BELL CREEK—Pipelines	90,618	576,185					496,627	98,588	71,588
BIG WALL—									
Continental Pipeline Co.		11,811				11,811			
BLACKFOOT—									
Camerland Cardinal Corp.		2,270						2,270	
BORDER—Permian Corp.			1,028					1,028	
BOWES—Texaco Inc.		10,453				10,453			
BRORSON-MADISON—									
Rock Island Oil & Ref.			4,913					4,913	
BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			29,966				29,966		
BRUSH LAKE—Portal Pipeline Co.		27,432					27,432		
CABIN CREEK & OTHERS*									
Butte Pipeline Co.	399,430	844,359	22,791	667,275			1,618,627		315,228
Shell Pipeline Co.	6,264	288,528			402			288,558	5,832
	405,694	1,132,887	22,791	667,275	402		1,618,627	288,558	321,060
CAT CREEK—									
Continental Pipeline Co.		10,979				10,979			
Truck			2,479			2,479			
		10,979	2,479			13,458			
COW CREEK—West. Crude Oil, Inc.			504				504		
CULBERTSON—Tesoro Petr. Corp.			3,445					3,445	
CUT BANK—									
Continental Pipeline Co.			11,257	544,095				555,352	
Phillips Petroleum Co.	63,545	129,502		26,242	1,418	156,233			61,638
Texas Pipeline Co.	22,249	72,841		76,808	342			149,246	22,310
Union Oil Co.	128,211	75,417			(2,568)	112,561			93,635
Western Oil Trans. Co.		74,677						74,677	
Western Oil Trans. (Moulton)		78,835						78,835	
	214,005	431,272	11,257	647,145	(808)	268,794		858,110	177,583
DELPHIA—Truck			603			603			
DWYER—Portal Pipeline Co.		19,107					19,107		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		185,480				185,480			
FAIRVIEW—Fairview Pipeline Co.		53,144					53,144		
FLAT COULEE—									
Camerland Cardinal Corp.		8,934				6,200		2,734	
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		72,760					72,760		
FRANNIE—Interstate Pipeline Co.		620					620		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	16,405	44,819				1,862		46,773	12,589
GIRARD—									
Rock Island Oil & Ref. Co.			7,032				7,032		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	10,826	32,776			842			35,136	7,624
GOOSE LAKE—									
Portal Pipeline Co.		39,798					39,798		
HAY CREEK—									
Fairview Pipeline Co.		16,620					16,620		
HIAWATHA—									
Continental Pipeline Co.		9,934					9,934		
HIBBARD—Truck			414			414			
INJUN CREEK—Permian Corp.			411				411		
IVANHOE—									
Continental Pipeline Co.		6,354				6,354			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		11,108				11,108			
KELLEY—									
Continental Pipeline Co.		4,007				4,007			
KEVIN SUNBURST—									
Homestake Oil & Gas Co.	1,778	2,847				2,564			2,061
Texas Pipeline Co.	6,770	10,948		4,039	154			14,728	6,805
	8,478	13,795		4,039	154	2,564		14,728	8,866
LEARY—Permian Corp.			818				818		
LODGE GRASS—Permian Corp.			1,242			1,242			
MASON LAKE—									
Continental Pipeline Co.		1,324				1,324			
MELSTONE—									
Continental Pipeline Co.		1,535				1,329	206		
MOSSER—Truck		602					602		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		22,767					22,767		
POLE CREEK—Truck			225				225		
PONDERA—Phillips Petr. Co.	26,601	26,625			(23)	9,802			43,447
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH & VOLT									
East Poplar Gathering System	16,543	99,127			433			100,676	14,561
RAGGED POINT—									
Continental Pipeline Co.		9,098				7,671	1,427		
RED CREEK—									
Western Oil Transportation Co.		21,045						21,045	
RESERVE—Portal Pipeline Co.		11,398					11,398		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3,098					3,098		
SHOTGUN CREEK—Truck			322				322		
SIDNEY—Truck			332					332	
SNYDER—Truck			1,168			1,168			
SOAP CREEK—Permian Corp.			3,632				3,632		
SPRING LAKE—									
Rock Island Oil & Ref. Co.			2,461				2,461		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	721,998	74,251		1,270,384	1,398	61,455		1,436,651	567,129
TULE CREEK—Tesero Petr. Corp.	3,359		40,661			41,253			2,767
Permian Corporation			4,343			4,343			
	3,359		45,004			45,596			2,767
WEED CREEK—									
Continental Pipeline Co.		3,642				3,642			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		12,683				12,379		304	
WOLF SPRINGS—									
Continental Pipeline Co.		3,769				3,769			
WILDCAT WELLS—Truck			90,733				90,733		
TOTALS	1,514,527	3,013,509	239,681	2,588,843	2,398	672,485	2,539,172	2,915,291	1,227,214

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat. Richey, Richey Southwest, Weldon and Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF AUGUST, 1970

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Tesoro Petr. Corp.	Union Oil Co.	Total
Big Wall	----------	11,811	----------	----------	----------	----------	----------	----------	----------	11,811
Bowes	----------	----------	11,359	----------	----------	----------	----------	----------	----------	11,359
Cat Creek	----------	2,310	----------	14,352	----------	2,365	----------	----------	----------	19,027
Cut Bank	18,803	----------	----------	----------	----------	----------	129,071	----------	120,920	268,794
Delphia	----------	----------	----------	----------	----------	376	----------	----------	----------	376
Elk Basin	----------	71,590	----------	48,682	65,208	----------	----------	----------	----------	185,480
Flat Coulee	----------	----------	----------	----------	----------	----------	----------	----------	6,200	6,200
Fred & George Creek	1,862	----------	----------	----------	----------	----------	----------	----------	----------	1,862
Gage & Gage Southwest	----------	----------	----------	----------	----------	47	----------	----------	----------	47
Hibbard	----------	----------	----------	----------	----------	277	----------	----------	----------	277
Ivanhoe	----------	6,354	----------	----------	----------	----------	----------	----------	----------	6,354
Keg Coulee	----------	3,575	----------	4,910	----------	----------	----------	----------	----------	8,485
Kelley	----------	----------	----------	----------	4,007	----------	----------	----------	----------	4,007
Kevin Sunburst	2,564	----------	----------	----------	----------	----------	----------	----------	----------	2,564
Lodge Grass	----------	1,242	----------	----------	----------	----------	----------	----------	----------	1,242
Mason Lake	----------	1,324	----------	----------	----------	----------	----------	----------	----------	1,324
Melstone	----------	----------	----------	1,329	----------	----------	----------	----------	----------	1,329
Pondera	----------	----------	----------	----------	----------	----------	25,140	----------	----------	25,140
Ragged Point	----------	----------	----------	7,671	----------	----------	----------	----------	----------	7,671
Sand Creek	----------	----------	----------	----------	----------	103	----------	----------	----------	103
Snyder	----------	1,168	----------	----------	----------	----------	----------	----------	----------	1,168
Sumatra & Stensvad	----------	12,680	----------	24,109	11,560	----------	----------	----------	----------	48,349
Tule Creek	----------	----------	----------	----------	----------	----------	----------	69,416	----------	69,416
Weed Creek	----------	----------	----------	----------	3,642	----------	----------	----------	----------	3,642
Whitlash	----------	----------	----------	----------	----------	----------	12,379	----------	----------	12,379
Wolf Springs	----------	----------	----------	----------	3,769	----------	----------	----------	----------	3,769
Total Montana Oil	23,229	112,054	11,359	101,053	88,186	3,168	166,590	69,416	127,120	702,175
Canadian Oil Imported	----------	561,856	----------	159,294	124,070	----------	----------	----------	----------	845,220
Wyoming Oil Imported	----------	743,948	----------	575,596	1,133,416	----------	----------	----------	----------	2,452,960
Total Montana, Canadian, and Wyoming Oil	23,229	1,417,858	11,359	835,943	1,345,672	3,168	166,590	69,416	127,120	4,000,355

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1969	25,966	13,237	71,981	111,184
August, 1969	24,955	10,463	85,446	120,864
August, 1970	22,651	27,265	79,128	129,044

PERCENTAGE OF CRUDE OIL REFINED

Montana	Canada	Wyoming
23.35%	11.91%	64.74%
20.65%	8.66%	70.69%
17.55%	21.13%	61.32%